

Grid-Connected PV Capacity (kW) Installed in California

| | kW Installed | Percent of Total |
|--|--------------|------------------|
| California Energy Commission* | 44,759 | 48.07% |
| California Public Utilities Commission* | 26,091 | 28.02% |
| Los Angeles Department of Water and Power | 9,572 | 10.28% |
| Sacramento Municipal Utility District | 9,252 | 9.94% |
| Pre-1998 | 1,918 | 2.06% |
| City of Riverside Public Utilities | 389 | 0.42% |
| City of Anaheim Public Utilities | 335 | 0.36% |
| City of Palo Alto Utilities | 290 | 0.31% |
| City of Roseville Electric | 133 | 0.14% |
| City of Pasadena Water and Power | 84 | 0.09% |
| Modesto Irrigation District | 60 | 0.06% |
| City of Santa Clara Electric Utility | 54 | 0.06% |
| Imperial Irrigation District | 30 | 0.03% |
| City of Ukiah Public Utilities | 20 | 0.02% |
| Azusa Light and Water Department | 20 | 0.02% |
| City of Glendale Water and Electric | 19 | 0.02% |
| Pacific Power | 19 | 0.02% |
| Truckee-Donner Public Utilities District | 12 | 0.01% |
| City of Redding Electric Utility | 10 | 0.01% |
| City of Burbank Water and Power | 10 | 0.01% |
| Healdsburg Municipal Electric Department | 10 | 0.01% |
| City of Lompoc Electric Department | 9 | 0.01% |
| City of Alameda Power and Telecom | 5 | 0.01% |
| City of Lodi Electric Utility | 4 | 0.00% |

| | |
|--------------|------------------|
| TOTAL | 93,104 kW |
|--------------|------------------|

| |
|-----------------|
| 93.10 MW |
|-----------------|

This analysis tracks the capacity of grid-connected PV installations in California from 1981 until the present. The vast majority of the early installations can be attributed to the work done by the Sacramento Municipal Utility District (SMUD). Beginning in 1998, the Energy Commission's Emerging Renewables ("Buydown") Program began offering rebates for grid-connected "emerging" systems in the service territories of the three largest Investor Owned Utilities (IOUs) - PG&E, SCE and SDG&E. In 2001, the Public Utilities Commission began the Self-Generation Incentive Program. The "Self-Gen" Program also offers rebates, but the program is administered by the utilities (PG&E, SCE, SDG&E and SCGC) directly. The Los Angeles Department of Water and Power (LADWP), as well as many of the smaller utilities, offer their own incentive programs.

* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE and SDG&E. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

Updated as of 12/31/04

Grid-Connected PV Capacity Installed in California

| Program | YEAR | | | | | | | | | | | | | | | | | | | | | | | | Total |
|---|-----------|-----------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | |
| Sacramento Municipal Utility District | 0 | 0 | 0 | 1,133 | 0 | 909 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 794 | 358 | 476 | 309 | 147 | 215 | 421 | 1,321 | 1,613 | 418 | 1,126 | 9,252 |
| California Energy Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181 | 619 | 726 | 4,034 | 8,102 | 12,273 | 18,824 | 44,759 |
| Pacific Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 360 | 487 | 2,041 | 4,951 | 7,418 | 11,894 | 27,211 |
| Southern California Edison | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 250 | 133 | 1,118 | 2,108 | 3,156 | 4,611 | 11,495 |
| San Diego Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 106 | 866 | 1,042 | 1,675 | 2,319 | 6,019 |
| Bear Valley Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 0 | 33 |
| Los Angeles Department of Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 432 | 589 | 2,573 | 3,829 | 2,047 | 9,572 |
| California Public Utilities Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,889 | 9,928 | 14,274 | 26,091 |
| Pacific Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,671 | 4,208 | 10,178 | 16,057 |
| Southern California Edison | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | 2,649 | 3,149 | 5,912 |
| San Diego Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 | 1,971 | 947 | 2,992 |
| ***Southern California Gas Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 1,100 | 0 | 1,130 |
| Pre-1998 | 37 | 38 | 11 | 12 | 15 | 63 | - | 4 | 59 | 15 | 17 | 477 | 806 | (336) | (250) | 378 | 110 | 464 | - | - | - | - | - | - | 1,918 |
| City of Palo Alto Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 101 | 73 | 40 | 45 | 290 |
| City of Santa Clara Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 34 | 14 | 4 | 0 | 54 |
| City of Pasadena Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | 0 | 0 | 84 |
| City of Burbank Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 3 | 10 |
| City of Anaheim Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 17 | 107 | 50 | 60 | 335 |
| City of Redding Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 9 | 10 |
| City of Glendale Water and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 19 |
| City of Riverside Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 15 | 214 | 10 | 389 |
| City of Roseville Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 44 | 62 | 18 | 0 | 133 |
| Pacific Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 9 | 0 | 0 | 19 |
| City of Alameda Power and Telecom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 0 | 5 |
| City of Ukiah Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 8 | 0 | 20 |
| City of Lodi Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| Imperial Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 |
| Modesto Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 0 | 60 |
| Azusa Light and Water Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Healdsburg Municipal Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 3 | 10 |
| City of Lompoc Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 |
| Truckee-Donner Public Utilities District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 3 | 1 | 2 | 12 |
| TOTAL | 37 | 38 | 11 | 1,145 | 15 | 971 | 0 | 4 | 59 | 15 | 17 | 489 | 806 | 458 | 128 | 854 | 418 | 798 | 967 | 1,701 | 6,259 | 14,563 | 26,892 | 36,459 | 93,104 |
| Cumulative Total | 37 | 75 | 86 | 1,231 | 1,245 | 2,217 | 2,217 | 2,221 | 2,280 | 2,295 | 2,312 | 2,801 | 3,606 | 4,064 | 4,193 | 5,046 | 5,465 | 6,263 | 7,230 | 8,931 | 15,190 | 29,753 | 56,645 | 93,104 | |

NOTES

* The Energy Commission's Emerging Renewables Program is open to the ratepayers of PG&E, SCE, SDG&E and Bear Valley Electric. The Public Utilities Commission's Self-Generation Incentive Program is open to the ratepayers of PG&E, SCE, SDG&E and the SCGC.

** The 2004 data is current as of 12/31/04.

*** The Southern California Gas Company (SCGC) has paid on over 5.9 MW of PV. However, the Gas Company has overlapping territory with several electric utilities that are reporting on the same projects. For projects that have participated in multiple programs with the Gas Company, the totals will be reported by electric utilities. Projects that have only participated in the Gas Company rebate program will be reported under the Gas Company header.

"Pre-1998" Row: These numbers were derived by subtracting the total kW installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions. Similarly, when determining the number of systems by year, the results showed negative numbers. Again, to be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.

In some cases, the 2002 totals for the smaller utilities reflect the cumulative total of all PV installed, not just the 2002 total.

Many of the utilities contacted had, at one time, a solar rebate program. It is possible other utilities have rebate programs, or other utilities may have installed PV, but those are not accounted for in this summary.

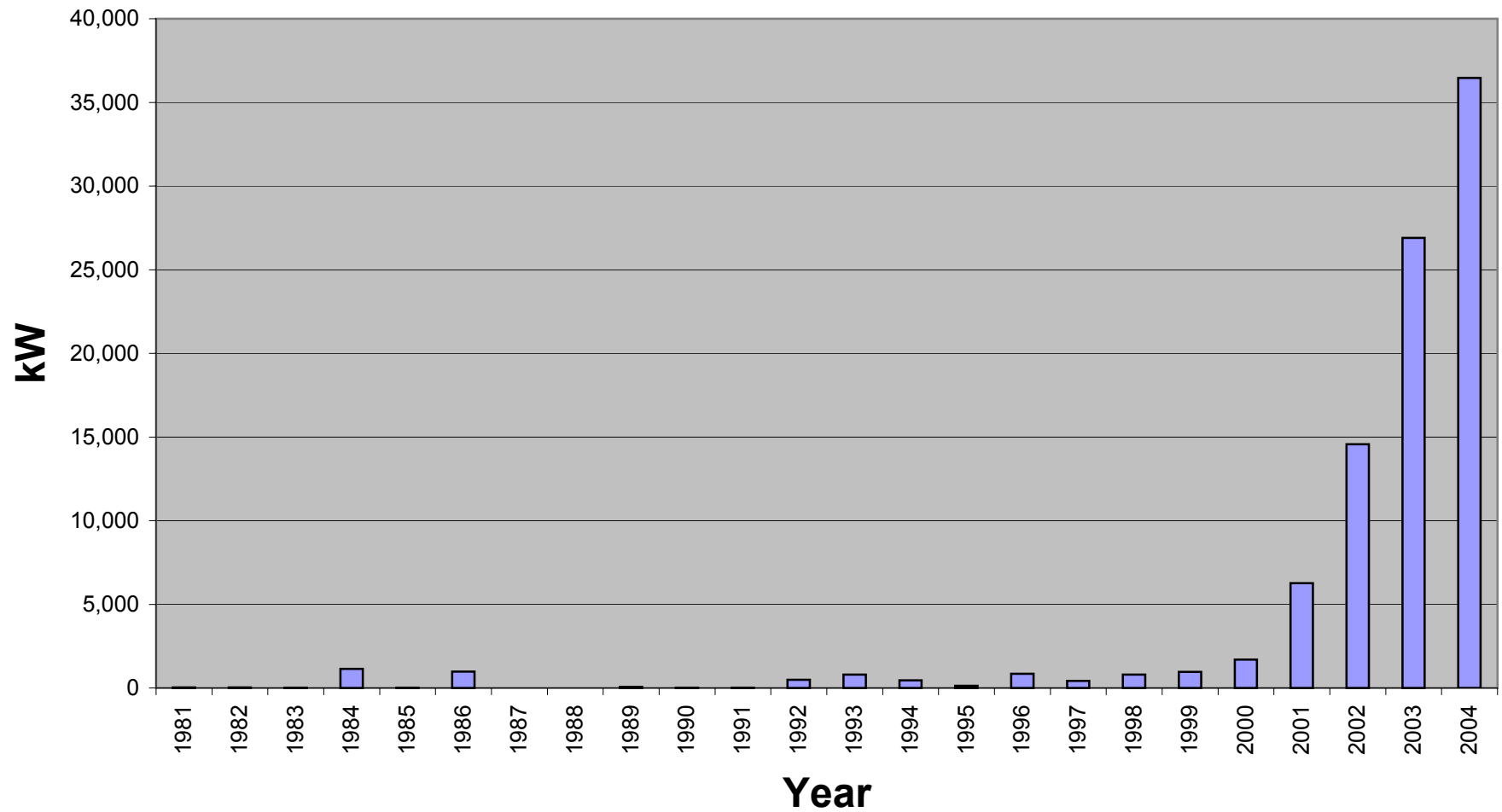
The Energy Commission numbers do not include any Publicly Owned Electric Utility installed systems. The Energy Commission has paid for 345 kW of these systems. However, to avoid double counting, these numbers were subtracted from the yearly totals.

The majority of programs report their watts in PTC. PTC stands for "PVUSA Test Conditions." PTC watt rating is based on 1000 Watt/m2 solar irradiance, 20 degree Celsius ambient temperature, and 1 meter/second wind speed. The PTC watt rating is lower than the "Standard Test Conditions" (STC), a watt-rating used by manufacturers. Known programs that do not use PTC include: Los Angeles Department of Water and Power (STC); City of Riverside Public Utilities (DC output).

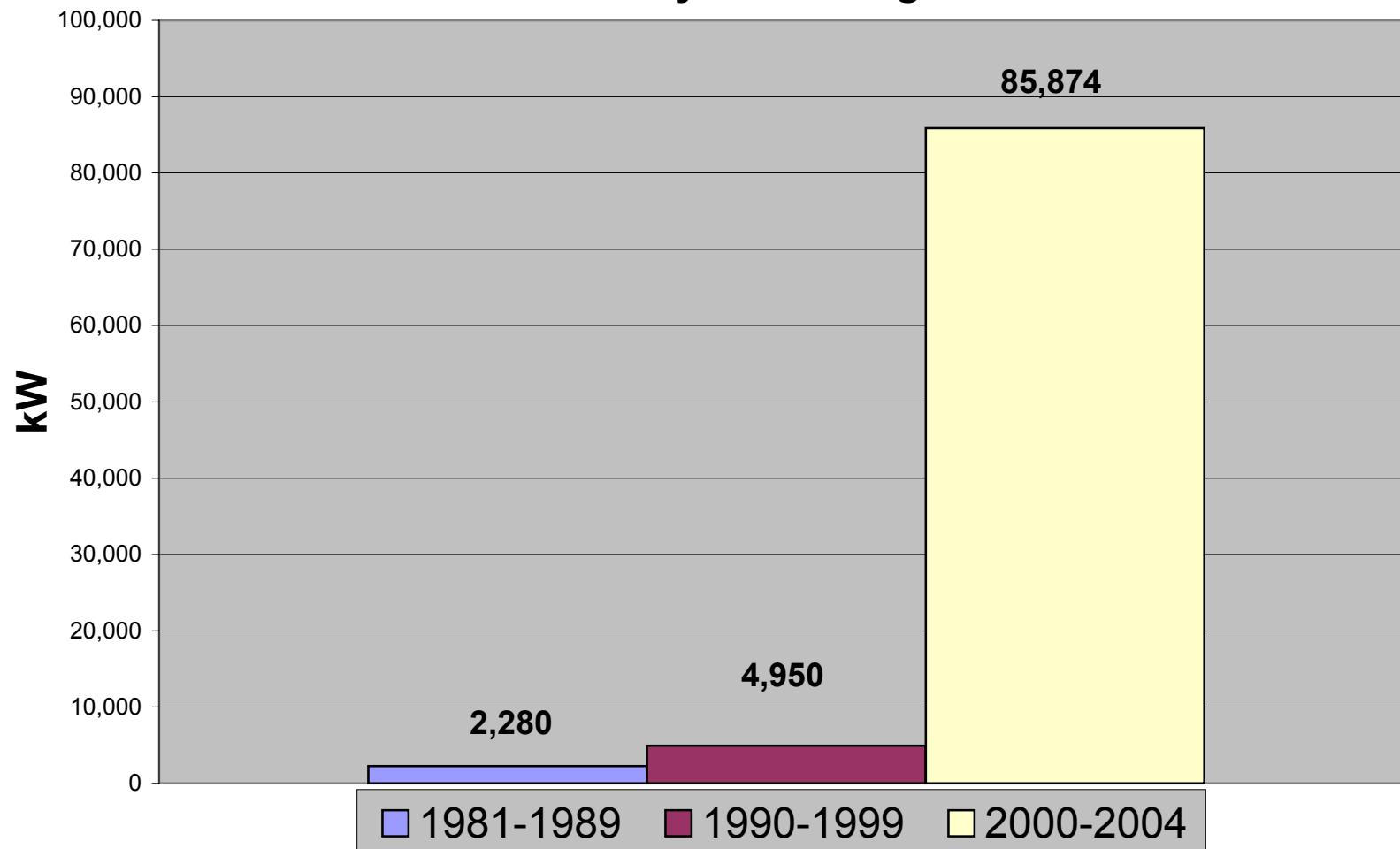
Between the 3rd and 4th Quarter 2004, SMUD revised their historical PV installation numbers. The reported amount of SMUD-installed PV declined by a total of 2.5 MW. SMUD does not know the exact cause for this decline. Two possible reasons that might cause differences between the earlier (higher) amount and the current (lower) amount could be when the system was reported installed may not correspond to when SMUD records the meter set date; (which is what the current data uses); and, possibly, with earlier systems, the methods used for estimating system size was likely a DC rating system. Currently, SMUD uses CEC AC ratings for customer owned systems, and a slightly more conservative method for SMUD owned systems.

Updated as of 12/31/04

Grid-Connected PV Capacity Installed in California By Year

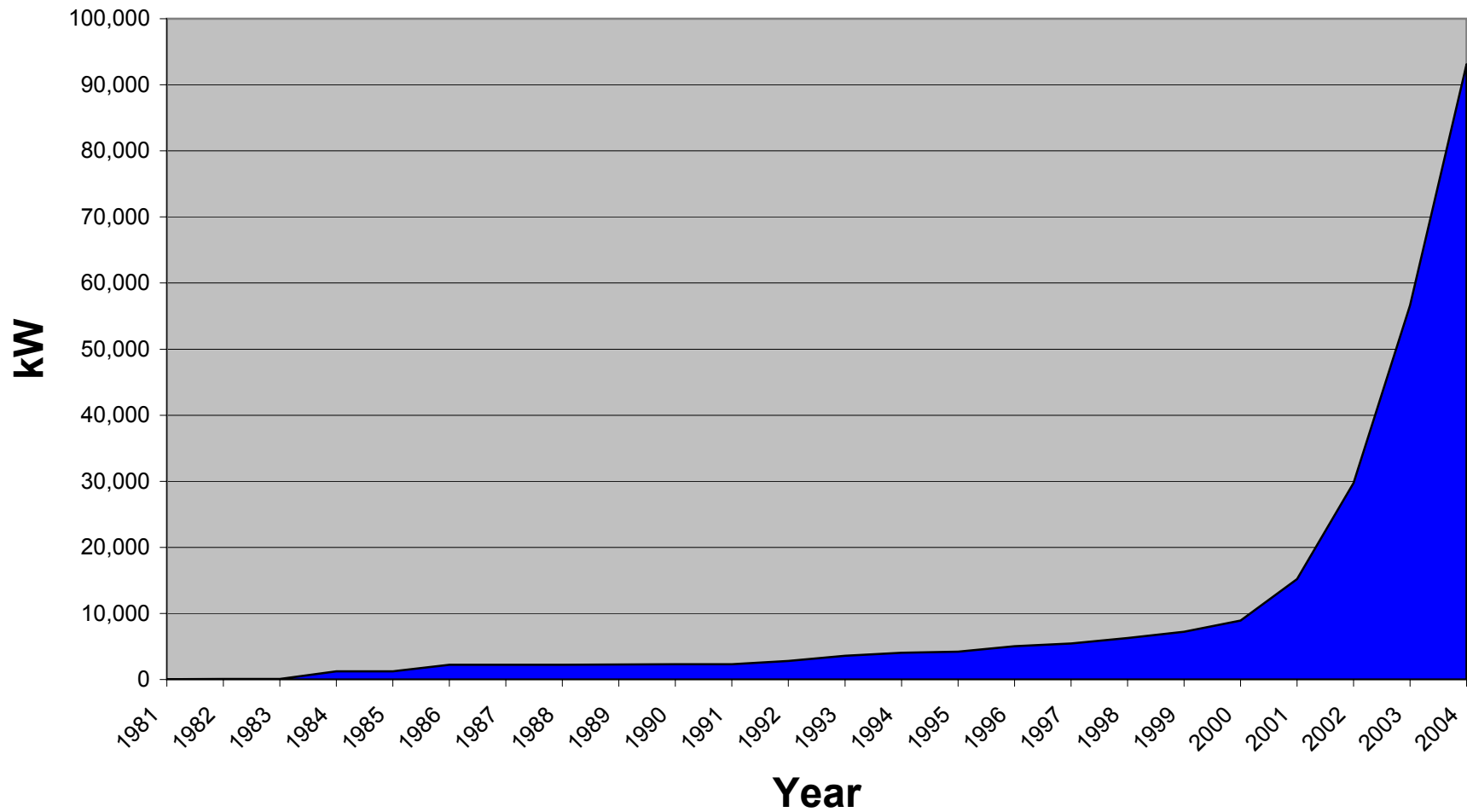


Grid-Connected PV Capacity Installed in California by Date Range

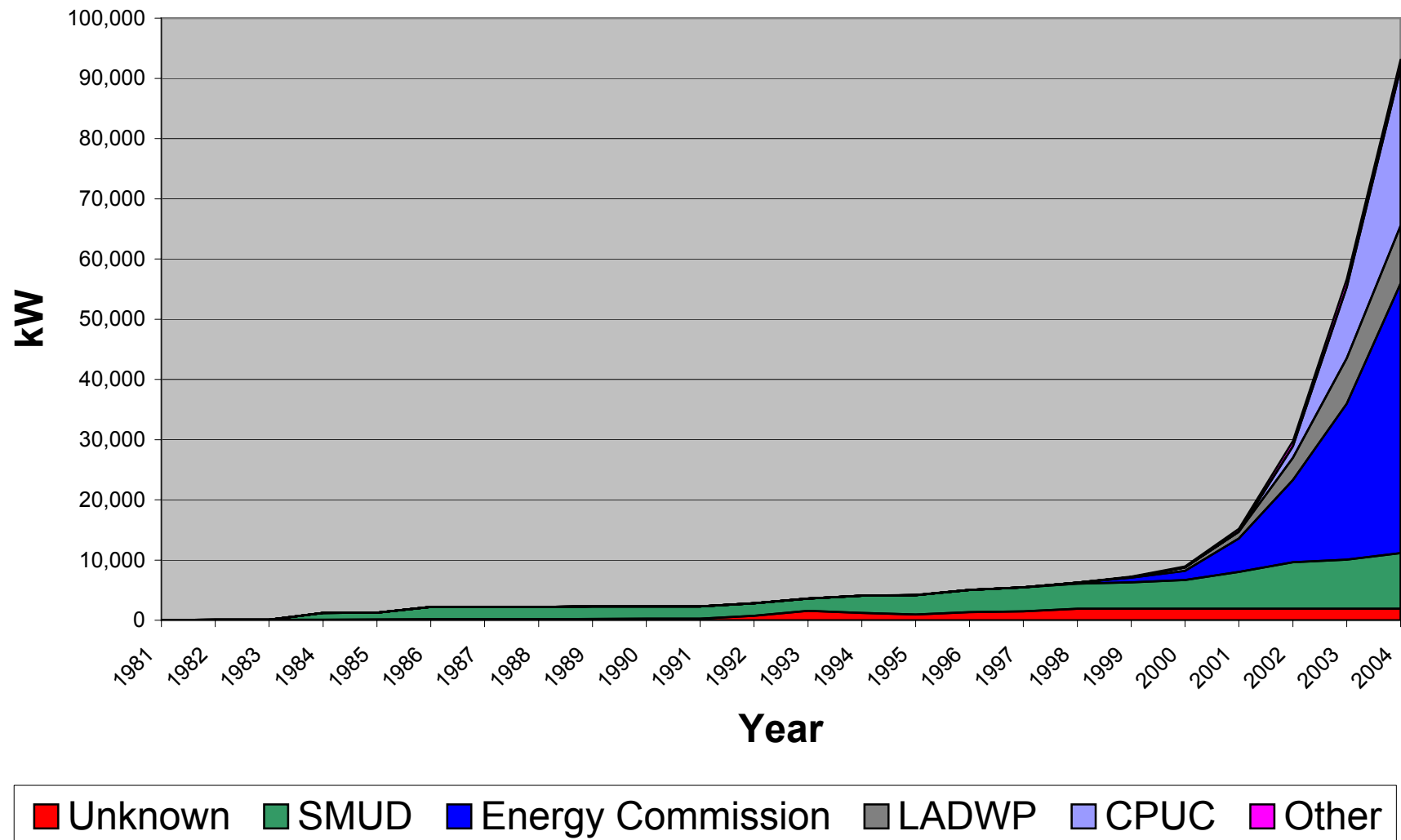


Grid-Connected PV Capacity Installed in California

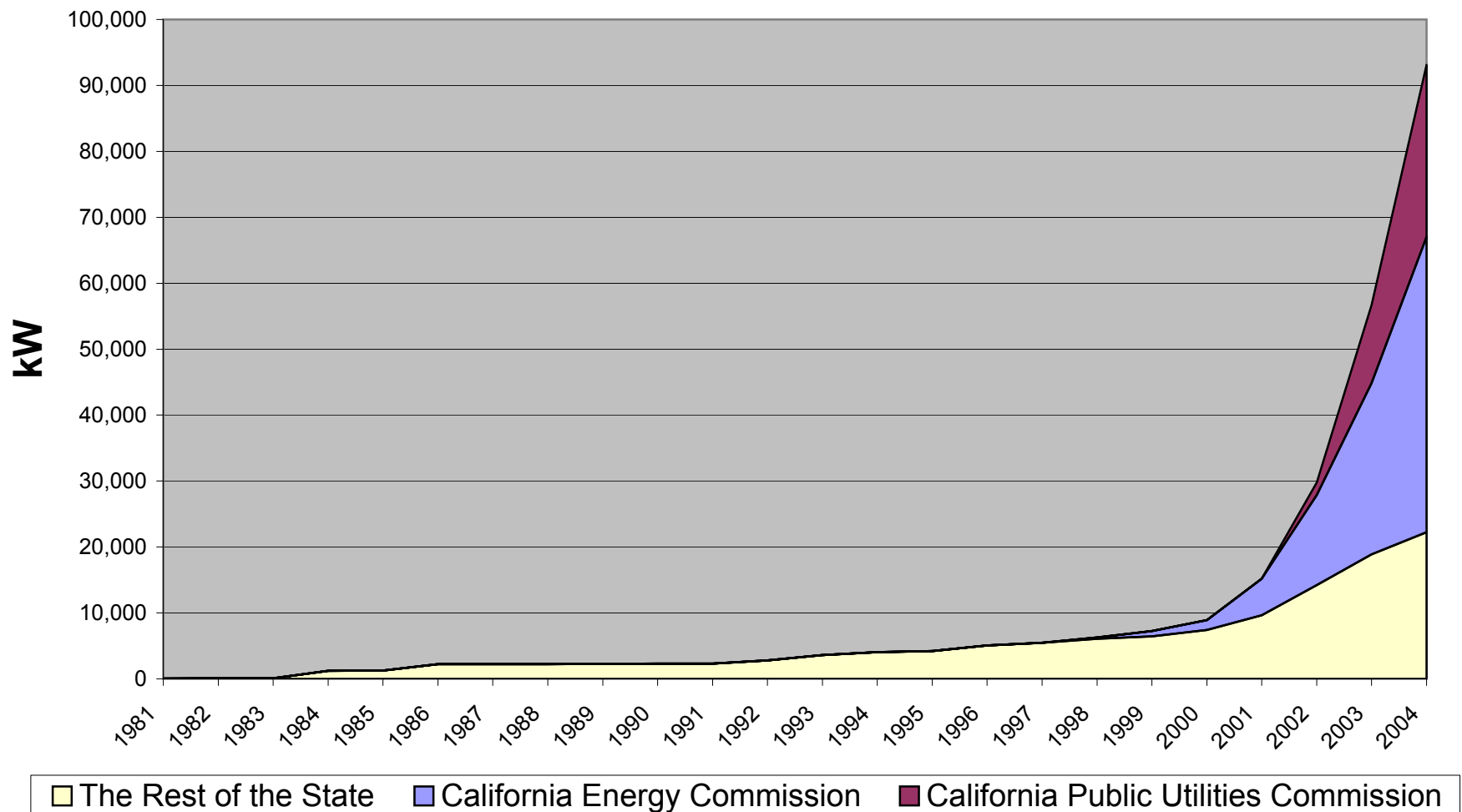
Cumulative



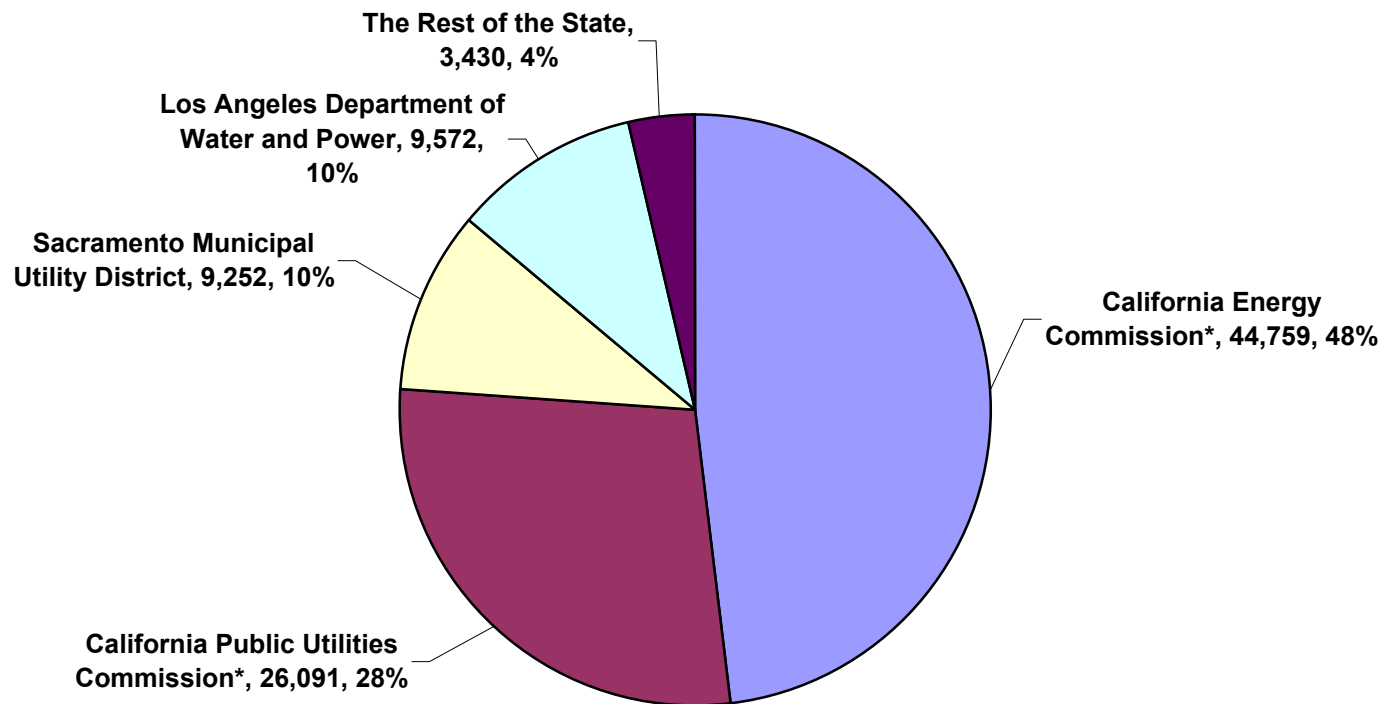
Grid-Connected PV Capacity Installed in California Cumulative



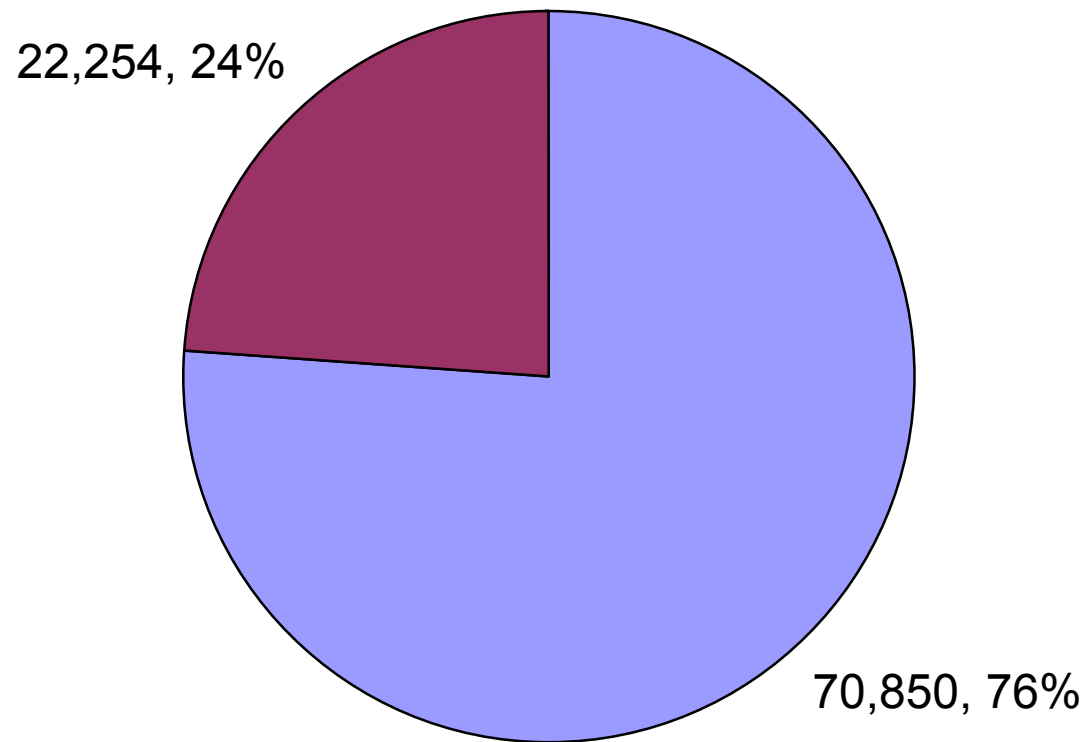
Grid-Connected PV Capacity Installed in California Cumulative



Grid-Connected PV Capacity Installed in California Cumulative, kW



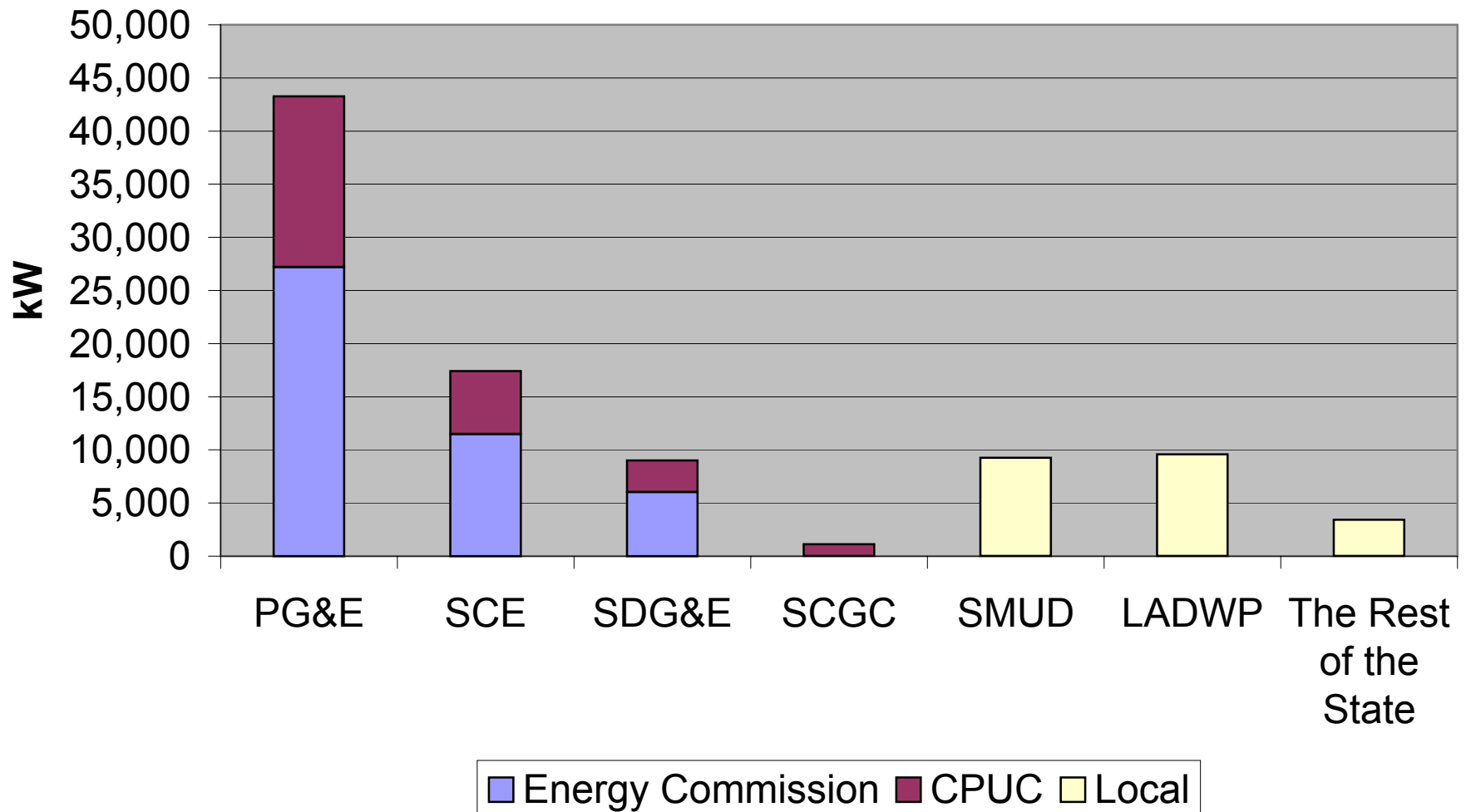
Grid-Connected PV Capacity Installed in California IOU vs. Local Program (kW)



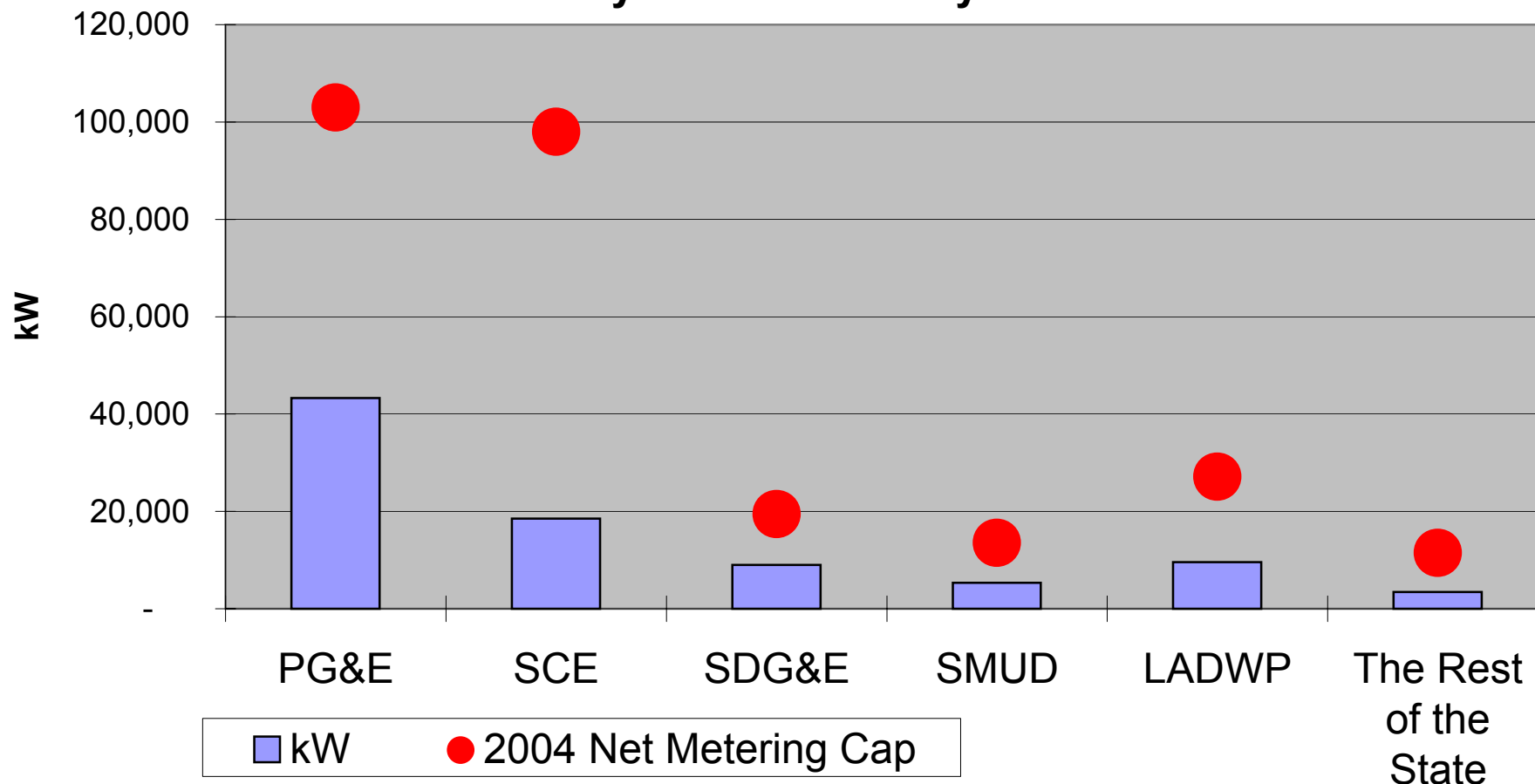
■ IOU

■ Local

Grid-Connected PV Capacity Installed in California by Service Territory



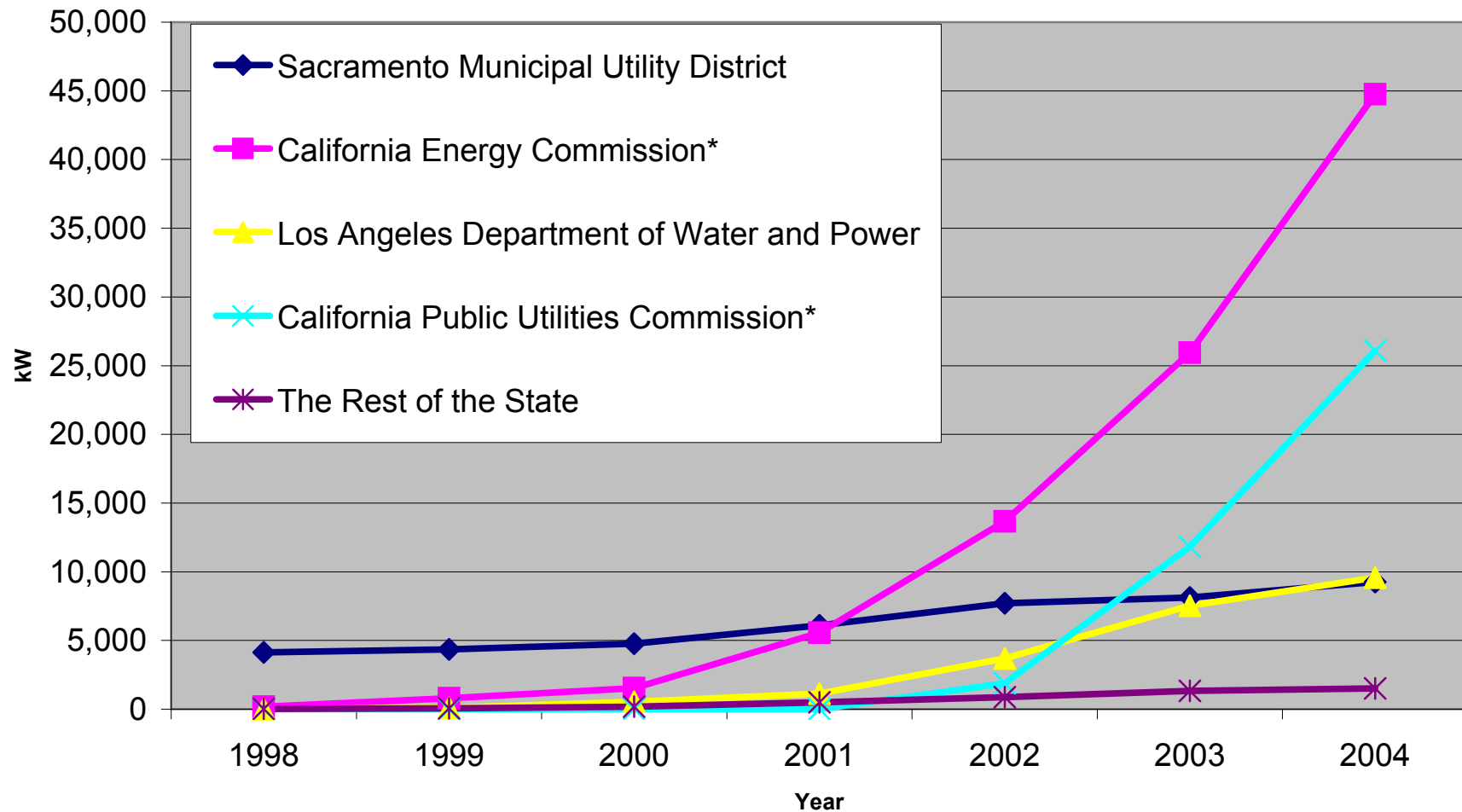
Estimated Net Metering Caps and Grid-Connected PV Capacity Installed in California by Service Territory



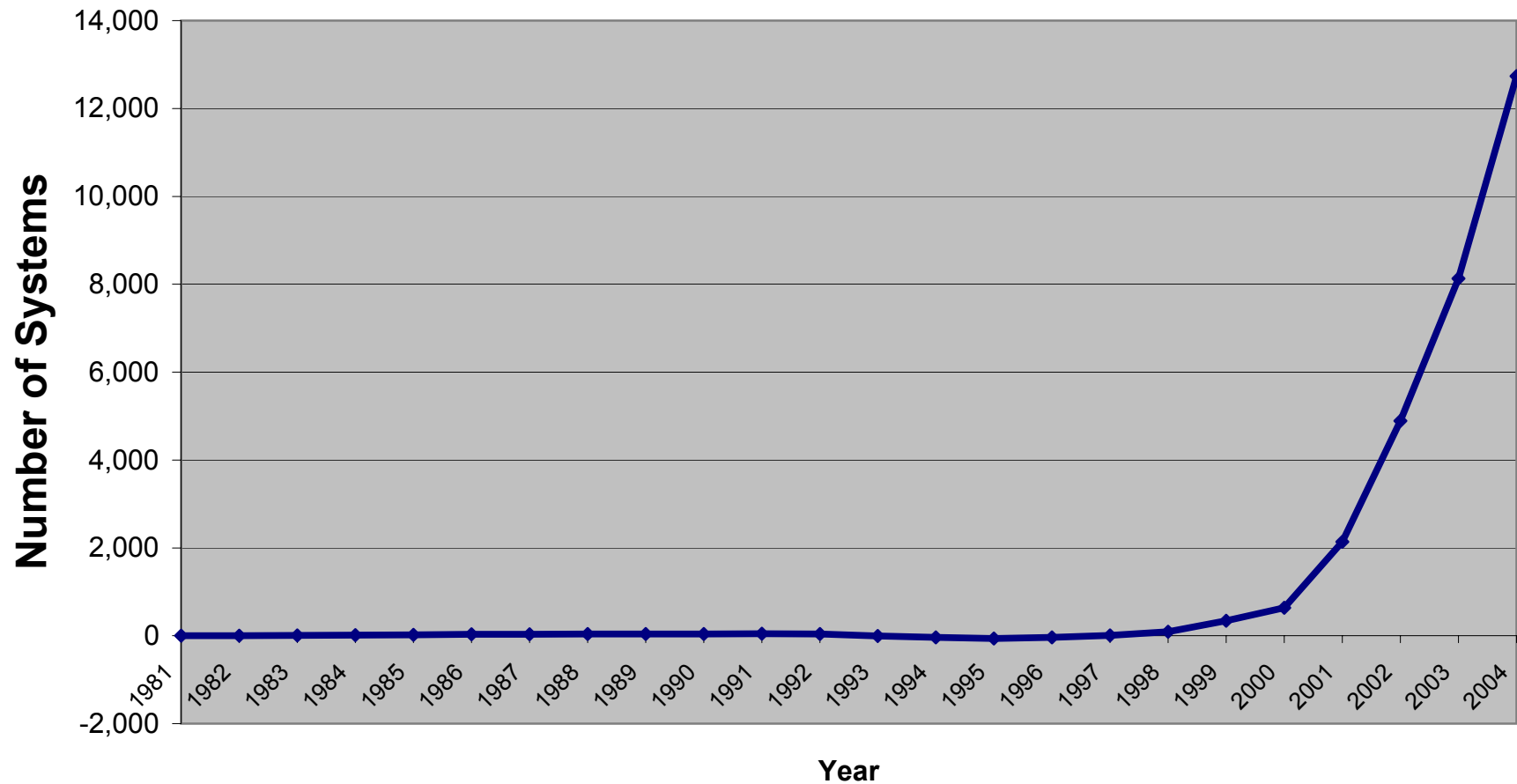
LADWP is exempted from the AB 58 net metering provisions. However, an estimated cap is provided for LADWP as if the cap did apply to them.

Grid-Connected PV Capacity Installed in California

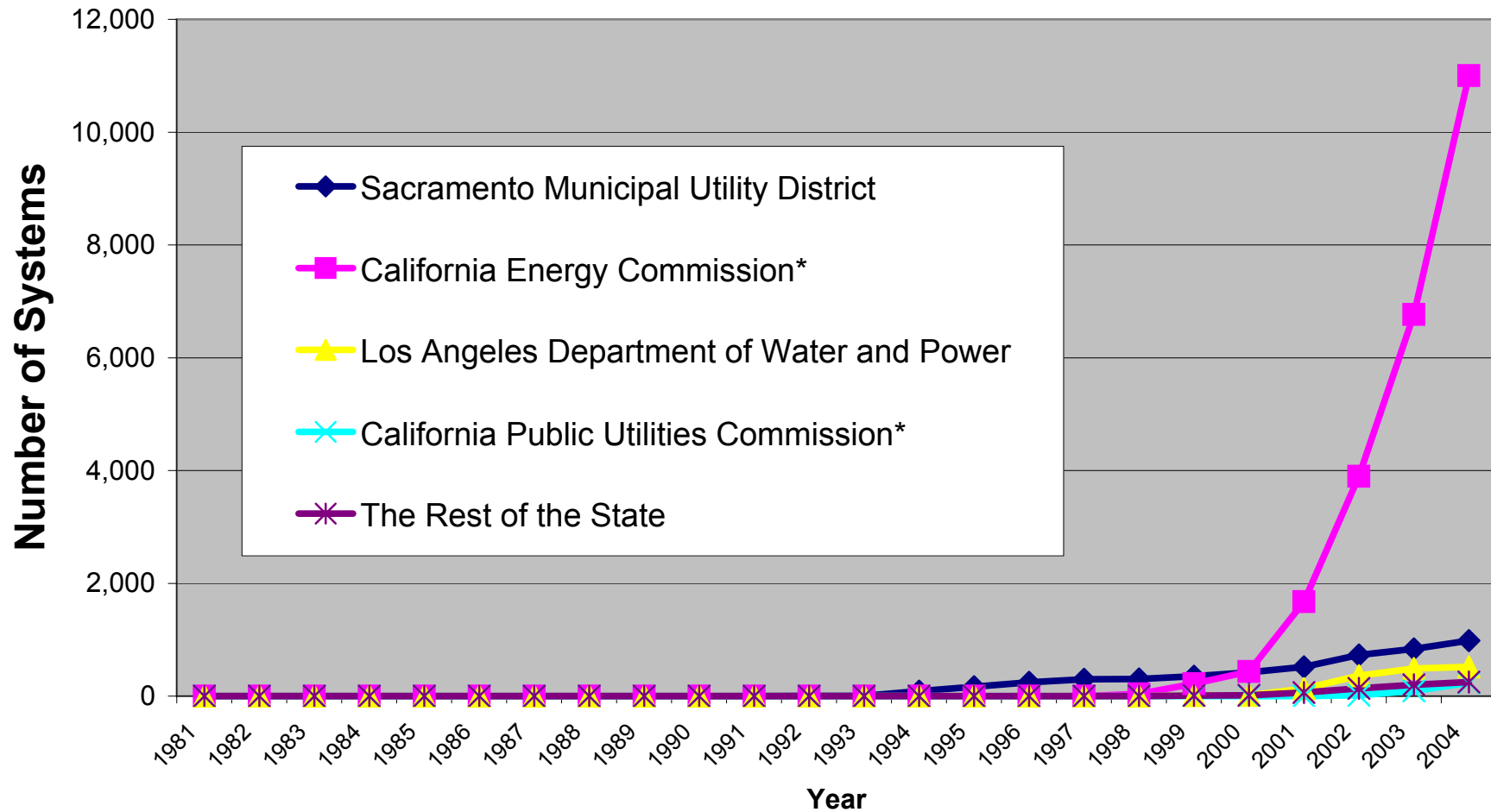
Cumulative kW Installed by Program: 1998 - 2004



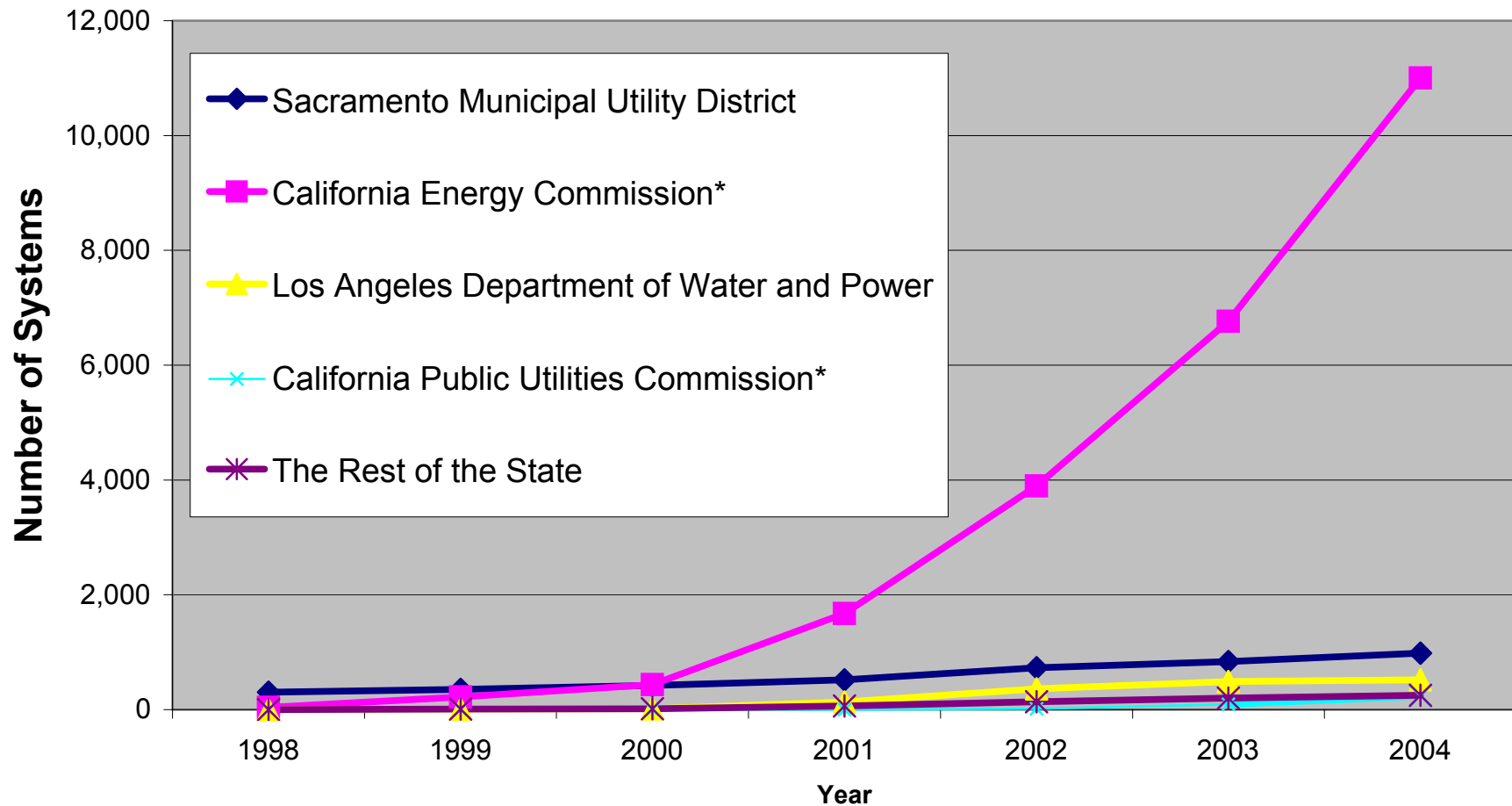
Number of Grid-Connected PV Systems Installed In California Cumulative



Number of Grid-Connected PV Systems Installed in California Cumulative by Program



Number of Grid-Connected PV Systems Installed in California Cumulative, by Program, 1998-2004



Grid-Connected PV Program Contacts in California

| Program | Contact | Telephone | Email |
|--|--------------------|---------------------|--|
| California Energy Commission* | Bill Blackburn | 916-653-2834 | Bblackbu@energy.state.ca.us |
| California Public Utilities Commission* | | | |
| PG&E | Dean Heatherington | 415-973-2362 | DAH7@pge.com |
| SCE | Howard Green | 626-302-8436 | greenh@sce.com |
| SDG&E | Mike Magee | 858-244-1177 | selfgen@sdenergy.org |
| SCGC | Marshall Kiyohiro | 213-244-5619 | selfgeneration@socalgas.com |
| Sacramento Municipal Utility District | Mike Keesee | 916-732-5244 | MKeesee@smud.org |
| Los Angeles Department of Water and Power | Josephine Gonzalez | 213-367-3151 | josephine.gonzalez@ladwp.com |
| City of Palo Alto Utilities | Lindsay Joye | 650-329-2241 | pvpartners@cityofpaloalto.org |
| City of Santa Clara Electric Utility | Leslie Brown | 408-244-SAVE | lbrown@ci.santa-clara.ca.us |
| City of Pasadena Water and Power | Mauricio Mejia | 626-744-6970 | mmejia@ci.pasadena.ca.us |
| City of Burbank Water and Power | John Joyce | 818-238-3653 | jjoyce@ci.burbank.ca.us |
| City of Anaheim Public Utilities | Dina Predisik | 714-765-4182 | dpredisik@anaheim.net |
| City of Redding Electric Utility | Paul Ahern | 530-339-7241 | pahern@reupower.com |
| City of Glendale Water and Electric | Ned Bassin | 818-548-2748 | nbassin@ci.glendale.ca.us |
| City of Riverside Public Utilities | Atoya Mendez | 909-826-5790 | amendez@ci.riverside.ca.us |
| City of Roseville Electric | Pat Morrison | 916-774-5624 | pmorrison@roseville.ca.us |
| Pacific Power | Michael Reid | 503-813-6052 | michael.reid@pacificorp.com |
| City of Alameda Power and Telecom | Don Rushton | 510-748-3946 | drushton@alamedapt.com |
| City of Ukiah Public Utilities | Cindy Sauers | 707-463-6295 | cindys@cityofukiah.com |
| City of Lodi Electric Utility | Rob Lechner | 209-333-6800 x 2583 | rlechner@lodielectric.com |
| Imperial Irrigation District | Bob Fugett | 760-482-3430 | mfugett@iid.com |
| Modesto Irrigation District | Jack Krieg | 209-526-7393 | jackk@mid.org |
| Azusa Light and Water Department | Bob Tang | 626-812-5214 | btang@ci.azusa.ca.us |
| Healdsburg Municipal Electric Department | Pete Frates | 707-431-3346 | PFrates@ci.healdsburg.ca.us |
| City of Lompoc Electric Department | Mary Kammer | 805-875-8298 | M_Kammer@ci.lompoc.ca.us |
| Truckee-Donner Public Utilities | Scott Terrell | 530-587-3896 | ScottTerrell@TDPUD.ORG |

Grid-Connected PV Program Alternate Contacts in California

| Program | Contact | Telephone | Email |
|--|-----------------------------|------------------------------|--|
| California Energy Commission* | Todd Lieberg | 916-654-4059 | tlieberg@energy.state.ca.us |
| California Public Utilities Commission* | | | |
| PG&E | Sara Birmingham | 415-973-5187 | sebb@pge.com |
| SCE | Mei Wong | | Mei.Wong@sce.com |
| SDG&E | Nathalie Osborn | 858 244-1193 | nos@sdenergy.org |
| SCGC | Tony Prietto | 213-244-3679 | aprieto@semprautilities.com |
| Sacramento Municipal Utility District | Obadiah Bartholomy | (916) 732 6835 | OBartho@smud.org |
| Los Angeles Department of Water and Power | Paul Costa or Thomas Honles | 213-367-4125 or 213-367-3151 | paul.costa@ladwp.com or thomas.honles@ladwp.com |
| City of Palo Alto Utilities | Lindsay Joye | 650-329-2241 | pvpartners@cityofpaloalto.org |
| City of Santa Clara Electric Utility | Leslie Brown | 408-244-SAVE | lbrown@ci.santa-clara.ca.us |
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| City of Burbank Water and Power | John Joyce | 818-238-3653 | jjoyce@ci.burbank.ca.us |
| City of Anaheim Public Utilities | Dina Predisik | 714-765-4182 | dpredisik@anaheim.net |
| City of Redding Electric Utility | Pam Brady-Koss | 530-339-7215 | pbradykoss@reddingelectricutility.com |
| City of Glendale Water and Electric | Ned Bassin | 818-548-2748 | nbassin@ci.glendale.ca.us |
| City of Riverside Public Utilities | Atoya Mendez | 909-826-5790 | amendez@ci.riverside.ca.us |
| City of Roseville Electric | Pat Morrison | 916-774-5624 | pmorrison@roseville.ca.us |
| Pacific Power | Michael Reid | 503-813-6052 | michael.reid@pacificcorp.com |
| City of Alameda Power and Telecom | Don Rushton | 510-748-3946 | drushton@alamedapt.com |
| City of Ukiah Public Utilities | Cindy Sauers | 707-463-6295 | cindys@cityofukiah.com |
| City of Lodi Electric Utility | Rob Lechner | 209-333-6800 x 2583 | rlechner@lodieletric.com |
| Imperial Irrigation District | Bob Fugett | 760-482-3430 | rfugett@iid.com |
| Modesto Irrigation District | Jack Krieg | 209-526-7393 | jackk@mid.org |
| Azusa Light and Water Department | Bob Tang | 626-812-5214 | btang@ci.azusa.ca.us |
| Healdsburg Municipal Electric | Pete Frates | 707-431-3346 | PFrates@ci.healdsburg.ca.us |
| City of Lompoc Electric Department | Mary Kammer | 805-875-8298 | M_Kammer@ci.lompoc.ca.us |
| Truckee-Donner Public Utilities | Scott Terrell | 530-587-3896 | ScottTerrell@TDPUD.ORG |

Grid-Connected PV Capacity in California

Graphing Data

YEAR

| Program | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Total | |
|---|-----------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|----|
| Sacramento Municipal Utility District | 0 | 0 | 0 | 1,133 | 0 | 869 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 794 | 308 | 476 | 309 | 147 | 218 | 421 | 1,321 | 1,813 | 418 | 1,138 | 8,235 | |
| California Energy Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181 | 619 | 728 | 4,034 | 8,102 | 12,273 | 18,824 | |
| Pacific Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27,211 | |
| Southern California Edison | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 250 | 133 | 1,118 | 2,108 | 3,186 | 4,611 | |
| San Diego Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 106 | 866 | 1,042 | 1,675 | 2,319 | | |
| San Jose Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,019 | |
| San Jose Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | |
| Los Angeles Department of Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 432 | 589 | 2,573 | 3,629 | 2,047 | 9,872 | |
| California Public Utilities Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26,091 | |
| Pacific Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,057 | |
| Southern California Edison | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,912 | |
| San Diego Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,992 | |
| ***Southern California Gas Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,130 | |
| Pre-1998 | 37 | 38 | 11 | 12 | 15 | 63 | 0 | 4 | 59 | 15 | 17 | 477 | 806 | 338 | 220 | 378 | 110 | 464 | 0 | 0 | 0 | 0 | 0 | 0 | 1,918 | |
| City of Palo Alto Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 101 | 73 | 40 | 45 | 290 | |
| City of Santa Clara Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 34 | 14 | 4 | 0 | 54 | |
| City of Pasadena Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | |
| City of Burbank Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | |
| City of Anaheim Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 17 | 107 | 50 | 60 | 0 | 335 | |
| City of Redding Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Glendale Water and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Riverside Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 388 | |
| City of Riverside Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | |
| Pacific Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Alameda Power and Telecom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| City of Ukiah Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | |
| City of Los Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| Imperial Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | |
| Modesto Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | |
| Akuna Light and Water Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | |
| Headburg Municipal Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | |
| City of Lompoc Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| Truckee Donner Public Utilities District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 3 | 1 | 2 | 16 |
| Cumulative Total | 37 | 38 | 11 | 12 | 15 | 63 | 0 | 4 | 59 | 15 | 17 | 477 | 806 | 338 | 220 | 378 | 110 | 464 | 0 | 0 | 0 | 0 | 0 | 0 | 93,104 | |
| Sacramento Municipal Utility District | 0 | 0 | 0 | 1,133 | 2,042 | 2,042 | 2,042 | 2,042 | 2,042 | 2,042 | 2,042 | 2,084 | 2,084 | 2,084 | 2,084 | 2,084 | 2,084 | 2,084 | 4,138 | 4,352 | 4,774 | 6,095 | 7,708 | 8,126 | 9,251 | |
| California Energy Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 181 | 600 | 1,326 | 5,561 | 13,662 | 25,935 | 44,759 | |
| Los Angeles Department of Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 534 | 1,123 | 3,698 | 7,525 | 9,572 | |
| California Public Utilities Commission* | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18,899 | |
| Pacific Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11,817 | |
| Southern California Edison | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,879 | |
| San Diego Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 | |
| San Jose Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,783 | |
| San Jose Gas and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5,912 | |
| ***Southern California Gas Company | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | |
| Pre-1998 | 37 | 38 | 11 | 12 | 15 | 63 | 0 | 4 | 59 | 15 | 17 | 477 | 806 | 338 | 220 | 378 | 110 | 464 | 0 | 0 | 0 | 0 | 0 | 0 | 1,918 | |
| City of Palo Alto Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 101 | 73 | 40 | 45 | 290 | |
| City of Santa Clara Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 36 | 50 | 54 | 54 | 19 | |
| City of Pasadena Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | |
| City of Burbank Water and Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | |
| City of Anaheim Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 | 119 | 226 | 275 | 338 | 0 | 335 | |
| City of Redding Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Glendale Water and Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Riverside Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 388 | |
| City of Riverside Electric | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | |
| Pacific Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | |
| City of Alameda Power and Telecom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| City of Ukiah Public Utilities | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | |
| City of Los Electric Utility | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | |
| Imperial Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | |
| Modesto Irrigation District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | |
| Akuna Light and Water Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | |
| Headburg Municipal Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | |
| City of Lompoc Electric Department | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| Truckee Donner Public Utilities District | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 0 | 3 | 1 | 2 | 16 |
| Total Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 37 | 38 | 11 | 12 | 15 | 63 | 0 | 4 | 59 | 15 | 17 | 477 | 806 | 338 | 220 | 378 | 110 | 464 | 0 | 0 | 0 | 0 | 0 | 0 | 93,104 | |
| Cumulative Total | 37 | 38 | 11 | 12 | 15 | 63 | 0 | 4 | 59 | 15 | 17 | 477 | 806 | 338 | 220 | 378 | 110 | 464 | 0 | 0 | 0 | 0 | 0 | 0 | 93,104 | |
| Total by Year Range | 1981-1989 | 1990-1999 | 2000-2004 | | | | | | | | | | | | | | | | | | | | | | | |
| | 2,280 | 4,890 | 85,873 | | | | | | | | | | | | | | | | | | | | | | | |
| Energy Cost CPUC: Local | | | | | | | | | | | | | | | | | | | | | | | | | | |

Grid-Connected PV Systems Installed in California

[illegible]

| | |
|--|--|
| NOTES | |
| Numerous utilities have not yet provided the data to determine how many systems were installed per year. | |
| <p>"Pre-1998" Row: These numbers were derived by subtracting the total number of systems installed by SMUD each year from the totals contained in Appendix A of the 2001 EPRI Report titled "California Renewable Technology Market and Benefits Assessment." In some years, there is a negative number. This obviously did not happen. To be consistent with the EPRI data, it was decided to keep the negative number rather than make more assumptions.</p> | |